

# Lightning arrester type 1 - FLT 100 N/PE CTRL-1.5 - 2856388

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Lightning current arrester with encapsulated N-PE spark gap and ignition electronics, 1-channel. Protection level: 1.5 kV. Housing width: 35 mm (2 Div.)



## Key commercial data

Packing unit	1 pc
GTIN	 4 017918 890858
Weight per Piece (excluding packing)	313.1 g
Custom tariff number	85363030
Country of origin	Germany
Note	Made to Order (non-returnable)

## Technical data

### Dimensions

Height	90 mm
Width	35.8 mm
Depth	65.7 mm
Horizontal pitch	2 Div.

### Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-40 °C ... 85 °C
Permissible humidity (operation)	≤ 95 %

### General

IEC power supply system	TT
	TN-S
Housing material	PBT
Inflammability class according to UL 94	V0
Color	black
Standards for clearances and creepage distances	EN 60664-1

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## Technical data

### General

	EN61643-11
Mounting type	DIN rail: 35 mm
Type	Rail-mountable module, one-piece
Surge protection fault message	None
Direction of action	N-PE

### Protective circuit

IEC test classification	I
	T1
EN type	T1
Nominal voltage $U_N$	230 V AC (400 V AC / TN, TT)
Maximum continuous operating voltage $U_C$	260 V AC
Maximum continuous operating voltage $U_C$ (N-PE)	260 V AC
$U_T$ (TOV-safe)	1200 V AC (200 ms)
Nominal frequency $f_N$	50 Hz
	60 Hz
Residual current $I_{PE}$	$\leq 0.1$ mA
Standby power consumption $P_C$	$\leq 26$ mVA
Max. discharge current $I_{max}$ (8/20) $\mu$ s	100 kA
Max. discharge current $I_{max}$ (8/20) $\mu$ s maximum (N-PE)	100 kA
Nominal discharge current $I_n$ (8/20) $\mu$ s	100 kA
Nominal discharge current $I_n$ (8/20) $\mu$ s (N-PE)	100 kA
Impulse discharge current (10/350) $\mu$ s charge	50 As
Impulse discharge current (10/350) $\mu$ s, specific energy	2.5 MJ/ $\Omega$
Impulse discharge current (10/350) $\mu$ s, peak value $I_{imp}$	100 kA
Front of wave sparkover voltage at 6 kV (1.2/50) $\mu$ s	$\leq 1.5$ kV
Front of wave sparkover voltage at 6 kV (1.2/50) $\mu$ s (N-PE)	$\leq 1.5$ kV
Voltage protection level $U_p$	$\leq 1.5$ kV
Voltage protection level $U_p$ (N-PE)	$\leq 1.5$ kV
Response time	$\leq 100$ ns
Response time (N-PE)	$\leq 100$ ns
Follow current quenching capacity $I_f$	100 A
Follow current quenching capacity $I_{fi}$ (N-PE)	100 A

### Connection, protective circuit

Connection method	Screw connection
Connection type IN	Biconnect screw terminal block
Connection type OUT	Biconnect screw terminal block
Connection method	Biconnect terminal block
Screw thread	M6
Tightening torque	8 Nm

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## Technical data

### Connection, protective circuit

Stripping length	19 mm
Conductor cross section stranded min.	16 mm <sup>2</sup>
Conductor cross section stranded max.	35 mm <sup>2</sup>
Conductor cross section solid min.	10 mm <sup>2</sup>
Conductor cross section solid max.	50 mm <sup>2</sup>
Conductor cross section AWG/kcmil min.	6
Conductor cross section AWG/kcmil max	1

### Standards and Regulations

Standards/regulations	IEC 61643-1 2005
	DIN EN 61643-11 2002
	DIN EN 61643-11/A11 2007

## Classifications

### eCl@ss

eCl@ss 4.0	27140201
eCl@ss 4.1	27140201
eCl@ss 5.0	27140201
eCl@ss 5.1	27140201
eCl@ss 6.0	27140201
eCl@ss 7.0	27140201
eCl@ss 8.0	27130802

### ETIM

ETIM 2.0	EC000381
ETIM 3.0	EC000381
ETIM 4.0	EC000381
ETIM 5.0	EC000381

### UNSPSC

UNSPSC 6.01	30212010
UNSPSC 7.0901	39121610
UNSPSC 11	39121610
UNSPSC 12.01	39121610
UNSPSC 13.2	39121620

## Approvals

### Approvals

# Lightning arrester type 1 - FLT 100 N/PE CTRL-1.5 - 2856388

## Approvals

Approvals

EAC

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Ex Approvals

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Approvals submitted

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## Approval details

EAC
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## Accessories

Accessories

Bridge

Wiring bridge - MPB 18/1- 8 BU - 2858470



Wiring bridge for modules with connecting pitch 17.5 mm, 1-phase, 8-pos., color: Blue

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## Device marking

Zack marker strip - ZBN 18:UNBEDRUCKT - 2809128



Zack marker strip, Strip, white, unlabeled, can be labeled with: Plotter, Mounting type: Snap into tall marker groove, for terminal block width: 18 mm, Lettering field: 18 x 5 mm

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## End block

End clamp - CLIPFIX 35 - 3022218



Quick mounting end clamp for NS 35/7,5 DIN rail or NS 35/15 DIN rail, with marking option, width: 9.5 mm, color: gray

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## Accessories

### Labeled device marker

Marker for terminal blocks - ZBN 18,LGS:L1-N,ERDE - 2749576



Marker for terminal blocks, Strip, white, labeled, Horizontal: L1, L2, L3, N, GND, Mounting type: Snap into tall marker groove, for terminal block width: 18 mm, Lettering field: 18 x 5 mm

Marker for terminal blocks - ZBN 18,LGS:ERDE - 2749589



Marker for terminal blocks, Strip, white, labeled, Horizontal: Grounding symbol, Mounting type: Snap into tall marker groove, for terminal block width: 18 mm, Lettering field: 18 x 5 mm

### Marker pen

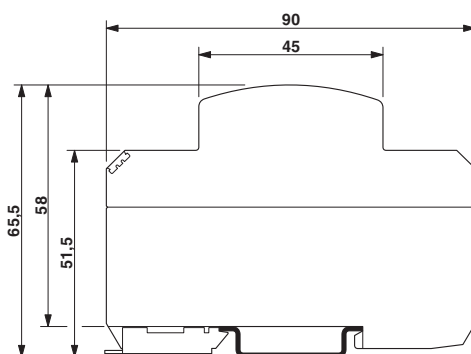
Marker pen - B-STIFT - 1051993



Marker pen, for manual labeling of unprinted Zack strips, smear-proof and waterproof, line thickness 0.5 mm

## Drawings

Dimensioned drawing



Circuit diagram

